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INTERNATIONAL SEARCH REPORT

International application No.

PCT/L	JS04	/267	87
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A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : C12N 15/86, 15/48, 15/49 US CL : 435/456, 320.1 Assorting to International Potent Classification (IBC) and a best patient already and IBC					
	According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols) U.S.: 435/456, 320.1					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet					
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.		
X	Mansky, L.M., "Influence of Reverse Transcriptase Variants, Drugs, and Vpr on Human Influence of Reverse Transcriptase Variants, Drugs, and Vpr on Human It-5, 8-10, 13-15, 17 Immunodeficiency Virus Type 1 Mutant Frequencies", Feb. 2003, J. Virol., Vol. 77: pgs. 2071-2080. See in particular Figure 1 A and B.				
A	Wooley, D.P. et al., "Retroviral Recombination Is No 1998, Virology, Vol. 243: pgs 229-234.	1-26			
A	Anderson, J.A. et al., "Retroviral Recombination Rates Do Not Increase Linearly with Marker Distance and Are Limited by the Size of the Recombining Subpopulation", 1998, J. Virol., Vol. 72: pgs. 1195-1202.				
A	Mansky, L.M. et al., "The Interaction of Vpr with Uracil DNA Glycosylase Modulates the Human Immunodeficiency Virus Tpye I In Vivo Mutation Rate", 2000, J. Virol., Vol. 74: pgs. 7039-7047.				
A	Bircher, L.A. et al., "High fidelity of homologous retr 2002, Arch. Virol., Vol. 147: 1665-1683.	1-26			
Further documents are listed in the continuation of Box C. See patent family annex.					
 Special categories of cited documents: "T" later document published after the international filing date or pridate and not in conflict with the application but cited to understa 					
"A" document particular	defining the general state of the art which is not considered to be of relevance	principle or theory underlying the inve	ntion		
"E" carlier application or patent published on or after the international filing date considered novel or cannot be considered novel					
"O" document	referring to an oral disclosure, use, exhibition or other means	being obvious to a person skilled in the			
"P" document published prior to the international filing date but later than the "&" document member of the same patent family priority date claimed		family			
Date of the actual completion of the international search 20 January 2005 (20.01.2005)		Date of mailing of the international search report 1 0 MAR 2005			
		Authorized officer	J N-1		
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450		Authorized officer Michael D. Burkhart			
Alexandria, Virginia 22313-1450 Facsimile No. 571 273-8300 Telephone No. 571 272-2915					
racsimile No.	. 111 213-0300		i		

Form PCT/ISA/210 (second sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

International application No. PCT/US04/26787

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Continuation of B. FIELDS SEARCHED Item 3:
FILE 'EMBASE, BIOSIS, MEDLINE, CAPLUS' ENTERED AT 10:17:40 ON 20 JAN 2005
      594134 S RETROVIR? OR LENTIVIR? OR HIV OR SIV OR FIV OR BIV
Ll
      40959 S (MUTATION (A) RATE) OR (MUTATION (A) FREQUENC?) OR (RECOMBINA
L2
       845 S L1 (P) L2
L3
      825576 S VECTOR OR PLASMID
L4
      541295 S VECTOR
L5
L6
        186 S L3 (P) L5
        59 DUP REM L6 (127 DUPLICATES REMOVED)
L7
        49 S L7 AND PY<=2002
L8
         4 S L7 AND PY=2003
L9
        4141 S MUTANT (A) FREQUENC?
L10
         91 S L1 (P) L10
LII
         16 S L11 (P) L5
L12
         4 DUP REM L12 (12 DUPLICATES REMOVED)
L13
         27 DUP REM L11 (64 DUPLICATES REMOVED)
LI4
        446 S MUTATION (A) TARGET
L15
         0 S L3 (P) L15
L16
         4 S L11 (P) L15
L17
          1 DUP REM L17 (3 DUPLICATES REMOVED)
L18
 EAST: US-PGPUB; USPAT; EPO; JPO; DERWENT
      Dawn near wooley.in.
      patricia near wooley.in.
 0
      kelly near huang.in.
 5
      jo near huang.in.
 27
      louis near mansky.in.
 83667 retrovir$ OR lentivir$ OR hiv OR siv OR fiv OR biv
 4214 (mutation adj rate) OR (mutation adj frequency) OR (recombination adj rate) OR (recombination adj frequency)
 248
      S6 same S7
 192
      S6 with S7
 2937 gag same pol same env
 2753 S6 same S10
      S11 and S7
 140
       S11 same S7
 15
 349771
          vector OR plasmid
 27404 S6 with S14
 1748 S15 same S10
       S16 same S7
 15
       S15 same S7
 46
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